## **BAYTECH CORPORATION**

EXECUTIVE ORDER A-330-0188
New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAM	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
	000/71100 0	` '	LPG	PROCEDURE	CLASS	2TWC, SFI, 2HO2S(2)	N/A				
	2008 8BYTH06.0633 6.0		LPG	Otto	HĐO						
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL		ADDITIONAL IDLE EMISSIONS CONTROL 5									
	N/A	N/A									
ENGINE (I	L)	ENGINE MODELS / CODES (rated power, in hp)									
6.0		GM6.0L / 1 (290)									
* =not appli	cable; GVWR=gross	vehicle weight rating; 13 C	CR xyz=Title 13, California Cod	e of Regulations, Sect	ion xyz; 40 CF	R 86.abc=Title 40, Code of Federal Regulation	ns, Section 86.abc;				
	=horsepower; kw=ki		•	-		•					
2		- '			ti fuela.k.a. BFF	=bi fuel; DF=duai fuel; FF=flexible fuel;					
			urban bus; HDO=heavy duty O								
	mission control system	n; IWC/UC=three-way/oxid	lizing catalyst; NAC=NUx adsor	rption catalyst; SCR-L	J / SCR-N=sele: S/AES=basted/:	tive catalytic reduction – urea / – ammonia; air-fuel-ratio sensor (a.k.a., universal or linear	WU (prefix) =warm-				
un catalyst	- DPE=diesal particul		ip unidizer. Muzaruza-nealeu	oxygen sensor, mare	SIMI S-INCALCUI	in-luci-lawu selisul (a.k.a., brilvelsal ul lilleal	OVARCH SCHOOL!				
up catalyst; TBi≃throitie	body fuel injection;	SFI/MFI=sequential/multi po	rt fuel injection; DGI=direct gas	cline injection; GCAR	B=gaseous car	buretor, IDI/DDI=indirect/direct dieset injection	n; TC/SC=lurbo/				
up catalyst; TBi≃throitie super charg	e body fuel injection; ger; CAC=charge air	SFI/MFI=sequential/multi po	rust gas recirculation / cooled E	ioline injection; GCAR GR; PAIR/AIR=pulser	tB=gaseous car d/secondary air	buretor, IDI/DDI=indirect/direct dieset injectio injection; SPL≂smoke puff limiter; ECMPCN	n; TC/SC=turbo/ /=engine/powertrain				
up catalyst; TB1=throitie super charg control mod 5 ESS=er	e body fuel injection; ger; CAC≂charge air dule; EM=engine mo ngine shuldown syste	SFI/MFI=sequential/multi po cooler; EGR / EGR-C=exha dification; 2 (prefix)=paralle m (per 13 CCR 1956.8(a)(6)	aust gas recirculation / cooled Ei l; (2) (suffix)≕in series; ı(A)(1); 30g=30 g/hr NOx (per 1	GR; PÁIR/AIR=pulses 3 CCR 1956.8(a)(6)(C	d/secondary air	buretor, IDI/DDI=indirect/direct dieset injection; SPL=smoke puff limiter; ECM/PCI al combustion auxiliary power system; ALT=: (e.g., Otto engines and vehicles);	f=engine/powertrain				

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on ponventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		co		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
FEL	*	*	•	*	*	*	*	*	+	*	*	*
CERT	0.07	*	0.14	*	*	+	6.5	*	0.003	*	0.001	*
NTE	*		*		*		*		*		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

**BE IT FURTHER RESOLVED:** Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

**BE IT FURTHER RESOLVED:** For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 24 day of April 2008.

Annette Hebert, Chief

**Mobile Source Operations Division**